Instruction Manual

Step 1. Install Anaconda

Anaconda is a software that allows you to run the Jupyter Notebook on your computer. Please refer to this link for download:

https://www.anaconda.com/download/

Scroll down the page a little bit to find the following section:

		What is Anaconda? Products S	Documenta Support Resources A	ition Blog Contact Q bout Downloads
High-Performance Distribution	Package Management	Portal to Data Science		
Easily install 1,400+ <u>data science</u> packages	Manage packages, dependencies and environments with <u>conda</u>	Uncover insights in your data ar create interactive visualizations	nd S	
	🕊 Windows 🗳 macOS 💩 Linux			
	Anaconda 5.3.1 For macOS Installe	er		
Python 3.7 v	ersion * Pytho	on 2.7 version *		
Downlu ک	oad J	Download		
64-Bit Graphical Installer	(<u>634 MB)</u> (2) <u>64-Bit Graph</u>	ical Installer (628 MB)		
64-Bit Command-Line Instal	ler (544 MB)(2) 64-Bit Commar	nd-Line Installer (539 MB) ③		
	¹ How to get Python 3.6 or other Python versions How to Install ANACONDA			

Please download the Python 3.7 version of Anaconda

Then please install Anaconda using the downloaded executable.

Windows User

Please execute the installer and keep click on '*Next*' without changing any settings until you see this page:

O Ana	iconda3 5.3.1 (64-bit) Setup		_		×		
0	ANACONDA	Advanced Installation Customize how Anaconda	Options a integrates wit	h Windows				
Ad	1. Click	this check	box					
	🗹 Add Anaconda to	my PATH environment varia	ble					
	Not recommended. I menu and select "An Anaconda get found cause problems requ	nstead, open Anaconda wit aconda (64-bit)". This "add before previously installed iring you to uninstall and rei	the Windows PATH" option oftware, but m nstall Anaconda	Start makes nay a.				
	Register Anaconda as my default Python 3.7 This will allow other programs, such as Python Tools for Visual Studio PyCharm, Wing IDE, PyDev, and MSI binary packages, to automatically detect Anaconda as the primary Python 3.7 on the system.							
Approp	da Tac	2.	Click	"Ins	tall			
Andcon	иа, шс. —	< E	ack In	stall	Cano	cel		

Make sure you check the option "Add Anaconda to my PATH environment variable" before you click "Install".

If the installer is asking you to install "MS Visual Studio Code", please ignore it.

Step 2. Install Required Python Libraries

We are now installing the required Python libraries to allow the program to execute correctly.

Windows User

1. Please open CMD program with "Administrator Privilege"

On the Windows taskbar, find a circle icon and click it



You will see a input field at the button, type "cmd"

		2. Ty	pe "C	MD"
			here	
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⊙ > ‴ �)				
ENG	ŝ	Search for		
1:10 PM 11/28/2018	2	DF Apps	Doci ments	Heb (Web
16		✓ Type here t	o search	Ų

The cmd program will show up in the window.



Please right click on it and choose "Run as administrator"



Here is the CMD window:

🖾 Administrator: Comma 🗙 🕂 🕴	_	\times
Microsoft Windows [Version 10.0.17134.407] (c) 2018 Microsoft Corporation. All rights reserved.		^
C:\WINDOWS\system32>		

2. Insert the command to install the libraries:

This is the command for installation:

conda install -c conda-forge selenium pandas numpy

Copy & paste this line to the CMD window and press "Enter" key.



Then, you will see a message like the following, type 'y' and press "Enter" key.

The	following	NEW packages will be IN	NSTALLED:			
	libflang: llvm-meta: openblas: openmp:	5.0.0-vc14_20180208 5.0.0-0 0.3.3-h535eed3_1001 5.0.0-vc14_1	conda-forge conda-forge conda-forge conda-forge	[vc14] [vc14]		
The	following	packages will be UPDATE	ED:			
	blas: numpy: pandas:	1.0-mkl 1.15.1-py37ha559c80_0 0.23.4-py37h830ac7b_0		> 1.1-openblas > 1.15.4-py37_blas_openblash442142e_1000 > 0.23.4-py37h830ac7b_1000	conda-forge conda-forge conda-forge	[blas_openblas]
Pro	ceed ([y]/n)? y Type 'y' a	nd press	"Enter" key		

Wait until the progress complete.

Step 3. Download additional Lib. file and the Program

1. Download Chrome Driver

Please refer to this link: https://chromedriver.storage.googleapis.com/index.html?path=2.42/

Download Windows version Chrome Driver as:

M Inbox - hippo199 🗙	M [UN Web Scrapin 🗙	💮 Topic: web scrapi 🗙	https://chromedr ×	O hippoandy/UN_
← → C ☆ ●	https://chromedriver.st	orage.googleapis.com/in	dex.html?path=2.42/	
🗰 Apps	🐞 iCloud 🛛 Google	🛆 Cloud 🛛 🕅 Scholar	🚉 Translate 🛛 YouTub	e 🗗 Facebook

Index of /2.42/

Name	Last modified	Size	ETag
Parent Directory	Click th	is one	
<u>chromedriver_linux64.zip</u>	2018-09-13 19:30:37	3.85MB	acfcc29fb03df9e913ef4c360a121ad1
chromedriver mac64.zip	2018-09-13 18:14:11	5.75MB	3fc0e4a97cbf2c8c2a9b824d95e25351
chromedriver_win32.zip	2018-09-13 21:11:33	3.42MB	28d91b31311146250e7ef1afbcd6d026
notes.txt	2018-09-13 21:23:09	0.02MB	18bdf6fc9f9d8dd668fa444b77d06bdd

Open the downloaded .zip file and extract the "chromedriver.exe" to your Downloads folder

File Home	Share	View	Extract										^ ?
 Documents PhD Admissions Downloads 	Pictu Libra	res ry iments tract To	 iCloud Drive Desktop Music 	* * *	Extract all	2. Click "Ex	ctract all'	•					
	> This	s PC → Do	wnloads > chron	nedrive	Extract	all				~ Ō	Search chr	omedriver_win32	,c
🕹 Quick access		Name	^		Extrac	t all items in this folder.	compressed size	Password	Size		Ratio	Date modified	
Desktop	*	Chron	medriver			Application	3,500 KB	No	б,	546 KB	47%	9/13/2018 12:58 PM	М
Documents	A A	1. 0	Click on	th	e ch	romedriver	to highlig	ght it					

You will see a window shows up, change the pathe to your **Download** folder and click "Extract"

Extract Compressed (Zipped) Folders

Select a Destination and Extract Files

Files will be extracted to this folder:



1. change the path to the "Downloads" folder



2. Download the program files:

Please refer to this link: https://github.com/hippoandy/UNWebscrapingWORKANA/

Download the program .zip file as:

ch or jump to	7 Pull requests Issues Marketplace	Explore	۴
📮 hippoandy / UN_We	bscraping_WORKANA	⊙ Watch - 0	r Star 0 9 Fork 0
<>Code (!) Issues (0)	ነት Pull requests 0 🛛 🕅 Projects 0 🗰 W	iki 📊 Insights 🔅 Settings	
This is the project aims to Manage topics	› find information of job market among Latin A	merica and Caribbean countries.	Edit
40 commits	۶۶1 branch		
La hippoandy Jupyter version	n of the scraping codes	Clone with HTTPS ③	Use SSH
scraping	Jupyter version of the scraping codes	Use Git or checkout with SVN	using the web URL.
scraping	Jupyter version of the scraping codes Error correction and update	Use Git or checkout with SVN https://github.com/hippoz	using the web URL.
 scraping web .gitignore 	Jupyter version of the scraping codes Error correction and update New ignore settings	Use Git or checkout with SVN https://github.com/hippor Open in Desktop	using the web URL. andy/UN_Webscrap 👔

Open the downloaded .zip file and extract the content:

UN_Webscraping_WC) X	+ :								- 🗆	\times
File Home S	Share	View	Extract		_						^ ?
 Documents PhD Admissions Downloads 	Pictur Librar Docu Ext	es y ments tract To	 iCloud Drive Desktop Music 	÷ Extract all	Click "Extr	ract all"					
← → • ↑ 🔢	> This	PC > D	ownloads > UN_W	ebscrap	t all				~ Ū	Search UN_Webscraping_WO	P
1. Or ish server		Name	^	Extra	act all items in this folder.	ompressed size	Password	Size	Ratio	Date modified	
📌 Quick access	*		Webscraping_WOR	KANA-mas	File folder					11/27/2018 8:44 PM	
Downloads	*										
Documents	*										
Pictures	*										
🜸 iCloud Photos	*										
iCloud Drive	*										

Make sure to change to destination path to your **Download** folder:

Extract Compressed (Zipped) Folders

Select a Destination and Extract Files

Files will be extracted to this folde: C:\Users\Andy\Downloads Browse... Image: Show extracted files when complete Agake sure to change the path to to your download folder Image: Show extracted files when complete Agake sure to change the path to your download folder Image: Show extracted files when complete Agake sure to change the path to your download folder Image: Show extracted files when complete Agake sure to change the path to your download folder Image: Show extracted files when complete Agake sure to change the path to your download folder Image: Show extracted files when complete Agake sure to your download folder Image: Show extracted files when complete Agake sure to your download folder Image: Show extracted files when complete Agake sure to your download folder Image: Show extracted files when complete Agake sure to your download folder Image: Show extracted files when complete Agake sure to your download folder Image: Show extracted files when complete Image: Show extr

Step 4. Open Jupyter Notebook Application

1. Open Anaconda then Jupyter

Open you installed Anaconda Program, you should see a window like this:

		🔾 Anaconda Na	avigator		
	IDA NAVIGATOR			Sig	n in to Anaconda Clou
Home	Applications on base (root)	~ Channels			Refres
Environments	*	*	\$	*	
Learning	lab	Jupyter	IP[y]:	*	
	JupyterLab	Notebook	Click the Launch Butt	Spyder	
Community	0.35.3	5.7.2		3.3.1	
	An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture.	Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.	PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.	Scientific PYthon Development EnviRonment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features	
	Launch	Launch	Launch	Launch	
	×	i î	*	R	
	VS Code	Glueviz	Orange 3	RStudio	
	1.28.0	0.13.3	3.17.0	1.1.456	
Documentation	Streamlined code editor with support for development operations like debugging, task running and version control.	Multidimensional data visualization across files. Explore relationships within and among related datasets.	Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.	A set of integrated tools designed to help you be more productive with R. Includes R essentials and notebooks.	
Developer Blog	Launch	Install	Install	Install	

To launch the Jupyter Notebook, click the "Launch" button of it.

Then, you should see you browser opens up and shows a page like this:

C Home X +	- 🗆 X
← → C ① localhost:8888/tree	🖈 🖾 📴 🚺 🧯 :
🗰 Apps 🎸 LeetCode 🐞 iCloud 💪 Google 🙆 Cloud 🔯 Scholar 🔯 Translate 💶 YouTube 🗗 Facebook 🥺 Messenger 🛅 LinkedIn	🕏 Paper 🧭 Overleaf 🛛 » 🛛 🔂 Other bookmarks
💭 Jupyter	Quit Logout
Files Running Clusters	
Select items to perform actions on them.	Upload New 🗸 🖊
	Name Last Modified File size
D 3D Objects	13 days ago
Anaconda3	an hour ago
Contacts	13 days ago
Desktop	4 days ago
Documents	2 hours ago
🔲 🗅 Downloads 🛛 🚽 — Click it to navigate to your Download folder	seconds ago
Dropbox	13 days ago
Favorites	11 days ago
C iCloudDrive	18 hours ago
Ci Links	13 days ago
Co Music	13 days ago
CneDrive	18 hours ago
C Pictures	12 days ago
C Roaming	14 days ago
Saved Games	13 days ago
Searches	13 days ago
Videos	12 days ago

Navigate to your Download folder, and you should see this:

💭 Jupyter		Quit Logou	ut
Files Running Clusters			
Select items to perform actions on them.		Upload New 🗸	2
🔲 0 👻 🖿 / Downloads		Name 🕹 Last Modified File size	е
D		seconds ago	
UN_Webscraping_WORKANA-master	Continue to navigate to the program folder	9 minutes ago	
Chromedriver.exe		an hour ago 6.7 M	ИB

Here you will see the downloaded files instructed in the previous section. Continue to naviagate to the program folder:

UN_Webscrpaing_WORKANA-master > scrpaing > selenium

Then, you should see this page:

C jupyter	Quit	Logout
Files Running Clusters		
Select items to perform actions on them. Here is the path, make sure it is the same as yours	Upload	New - 2
0 - Downloads / UN_Webscraping_WORKANA-master / scraping / selenium	me 🔶 Last Modified	File size
	seconds ago	
C chrome-driver	11 minutes ago	
WORKANA_Freelancers_Scraping_using_Selenium.ipynb Open this Jupyter Notebook	11 minutes ago	15.4 kB
E result.csv	11 minutes ago	2 kB
Scrap.py	11 minutes ago	5.4 kB
L tutorial.py	11 minutes ago	2.11 kB

Click on the Jupyter Notebook to open the program.

Here is the Jupyter Notebook program



Logout

Please use the run button to execute the notebook.

2. Run the Notebook

Before execution, please find the driver section of the code, the section starts with the line:

load the chrome driver executable

Replace the tag to your computer user name:



To find your user name, you may check the properties information of the chromedriver.exe file.

🖶 Downloads	× + :			– 🗆 ×
File Home Sha	re View Manage			~ 🕐
Pin to Quick Copy Past	Copy path Paste shortcut	Delete Rename New item • New item • T Easy access • Properties	Open • Select all Edit Select none History Invert selection	
Clipboa	rd Org	anize New Open	Select	
← → · ↑ 🕂 ›	This PC > Downloads		マ O Search Downle	م ads
Quick access Desktop Downloads Documents Pictures icloud Photos icloud Photos icloud Drive PhD Admissions Library (D:) Recycle Bin Dropbox OneDrive This PC Data (E:) USB DRIVE A (J:) USB DRIVE A (J:)	UN_Webscraping WORKANA-mas ter	Open Import to Grammarly Open with Code Troubleshoot compatibility Pin to Start 7-Zip Move to Dropbox Scan for viruses Check reputation in KSN Kaspersky Application Advisor Image: Share Give access to Pin to taskbar Restore previous versions		vaus مر
Network		Send to >		
		Cut Copy Create shortcut		
		Delete		
		Rename		
		Properties		

Headed to your Downloads folder, right click on the chromedriver.exe and choose "Properties".

You will see a window like this, the location field indicated the user name:

chromedriver Properties		
General Comp	patibility Security Details Previous Versions	
	chromedriver	
Type of file:	Application (.exe)	
		_
Location:	C:\Users\Andy\Downloads	
Size:	6.39 MB (6,702,592 bytes)	
Size on disk:	6.39 MB (6,705,152 bytes)	
Created:	Thursday, September 13, 2018, 12:58:26 PM	
Modified: Today, November 28, 2018, 12:48:12 PM		
Accessed:	Thursday, September 13, 2018, 12:58:26 PM	
Attributes:	Read-only Hidden Advanced	
Security:	This file came from another computer and might be blocked to help protect this computer.	
	OK Cancel Apply	

Here, the user name is "Andy".

Please go back to the Jupyter notebook and replace the user name with yours.

If you see this window while running the program, please click "Allow".

💣 Windows Secu	urity Alert		\times
Windo app	ws Defende	er Firewall has blocked some features of this	
Windows Defender networks.	Firewall has bloo	ked some features of Python on all public and private	
	Name:	Python	
	Publisher:	Python Software Foundation	
	Path:	C:\users\andy\anaconda3\python.exe	
Allow Python to communicate on these networks:			
Public netwo because the	rks, such as tho: se networks ofte	se in airports and coffee shops (not recommended In have little or no security)	
What are the risks	of allowing an ap	p through a firewall?	
		Allow access Cancel	